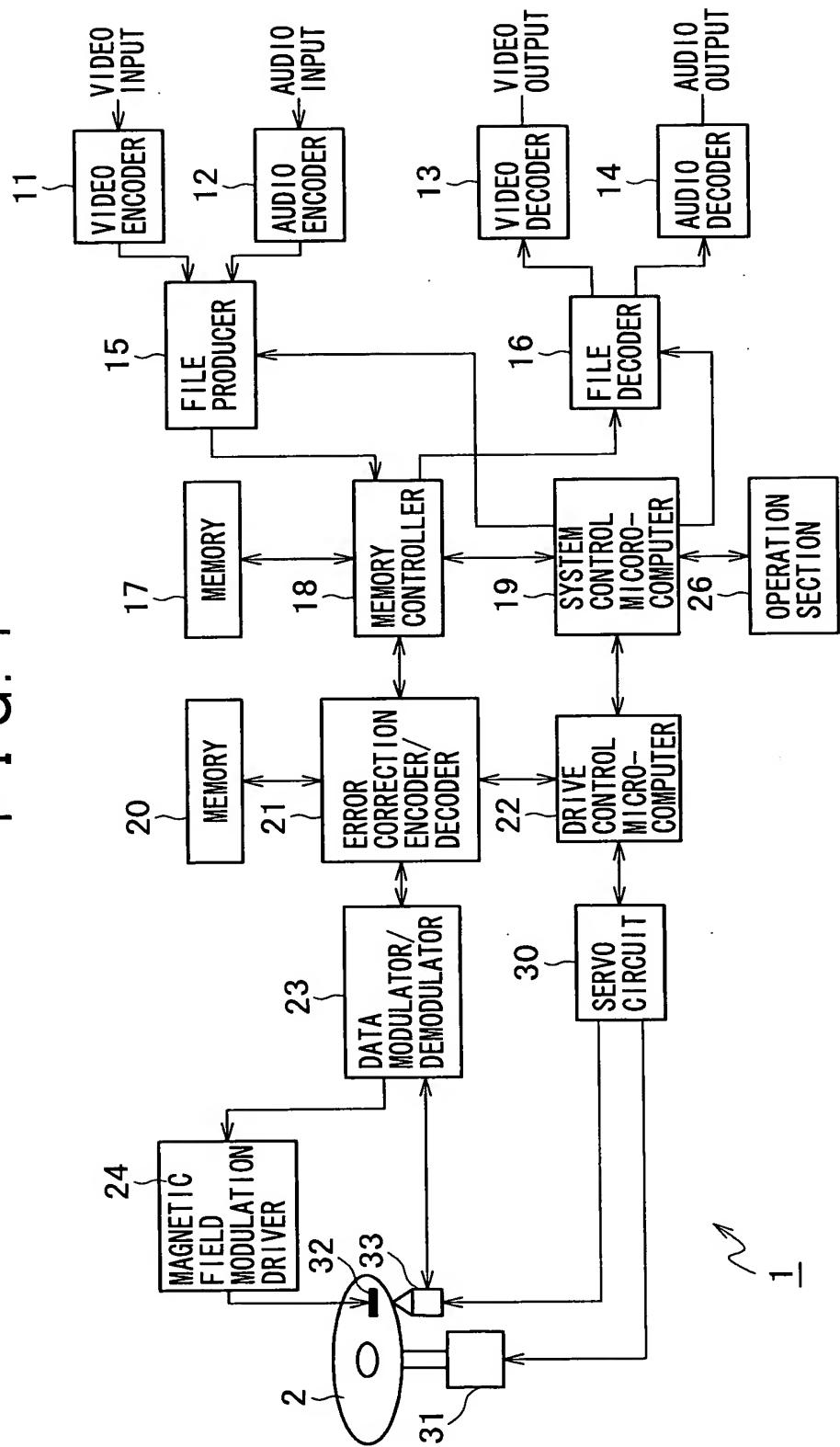


1  
G.  
I  
E



F I G. 2

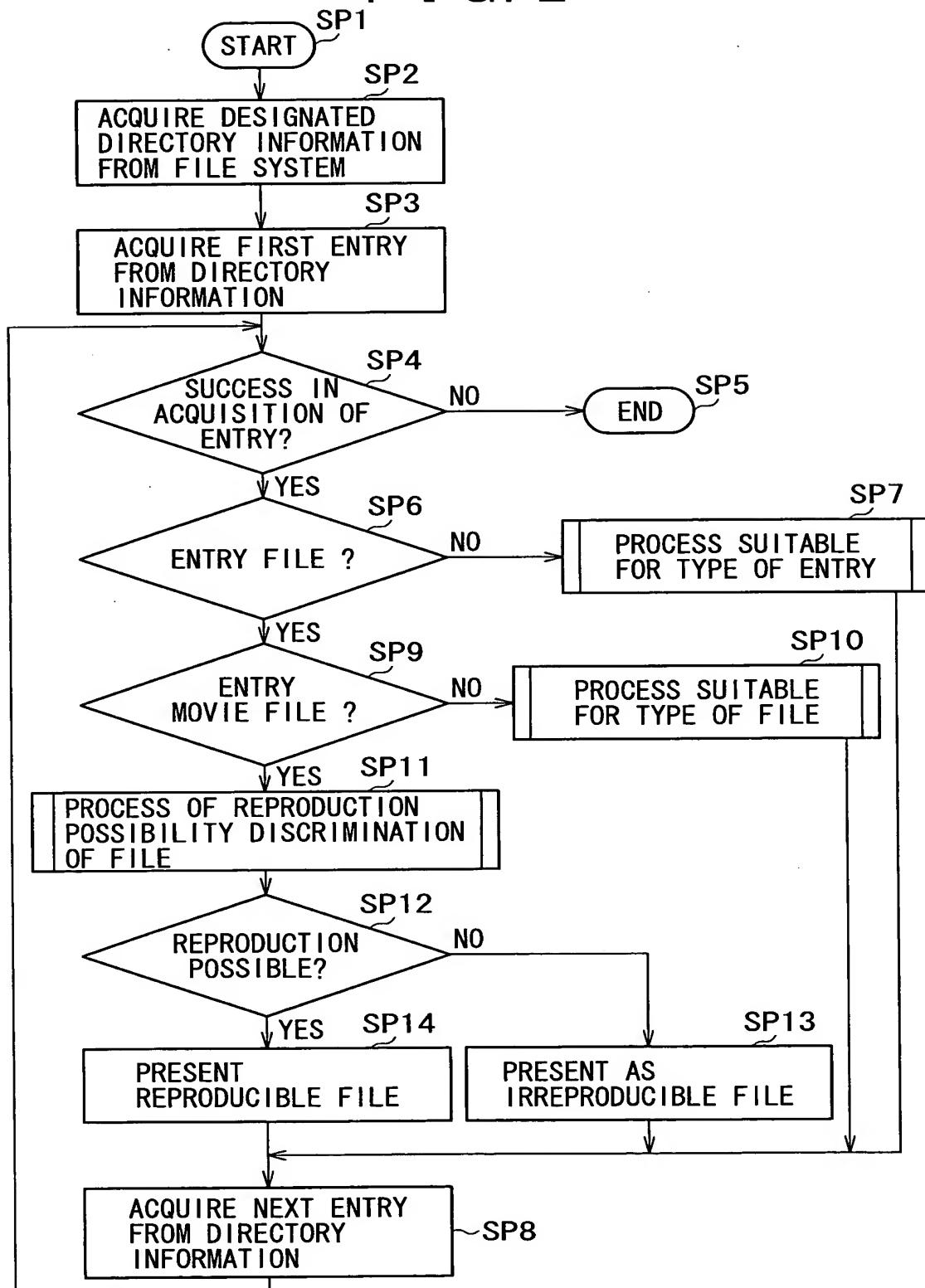


FIG. 3

3 / 31

SP21

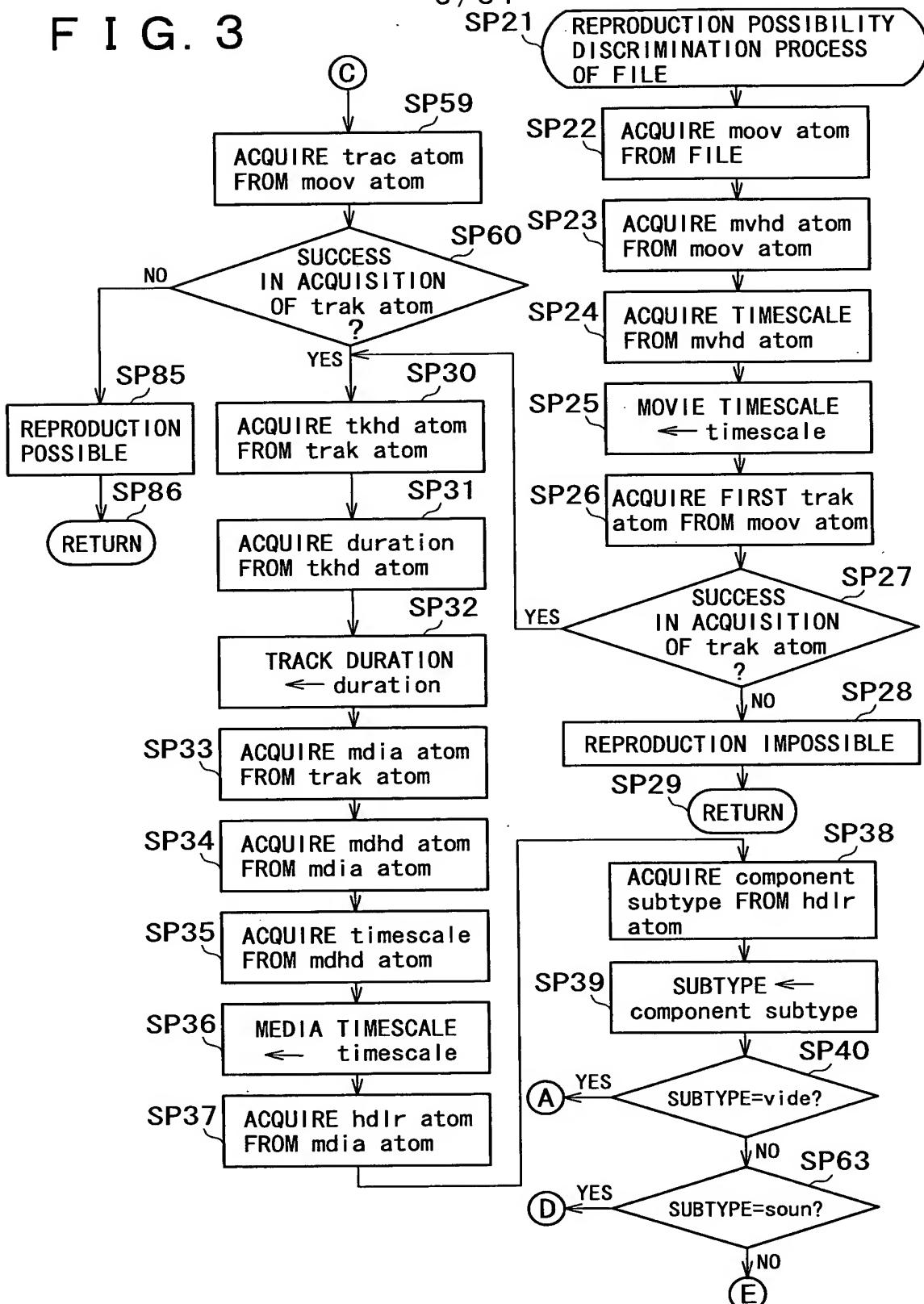


FIG. 4

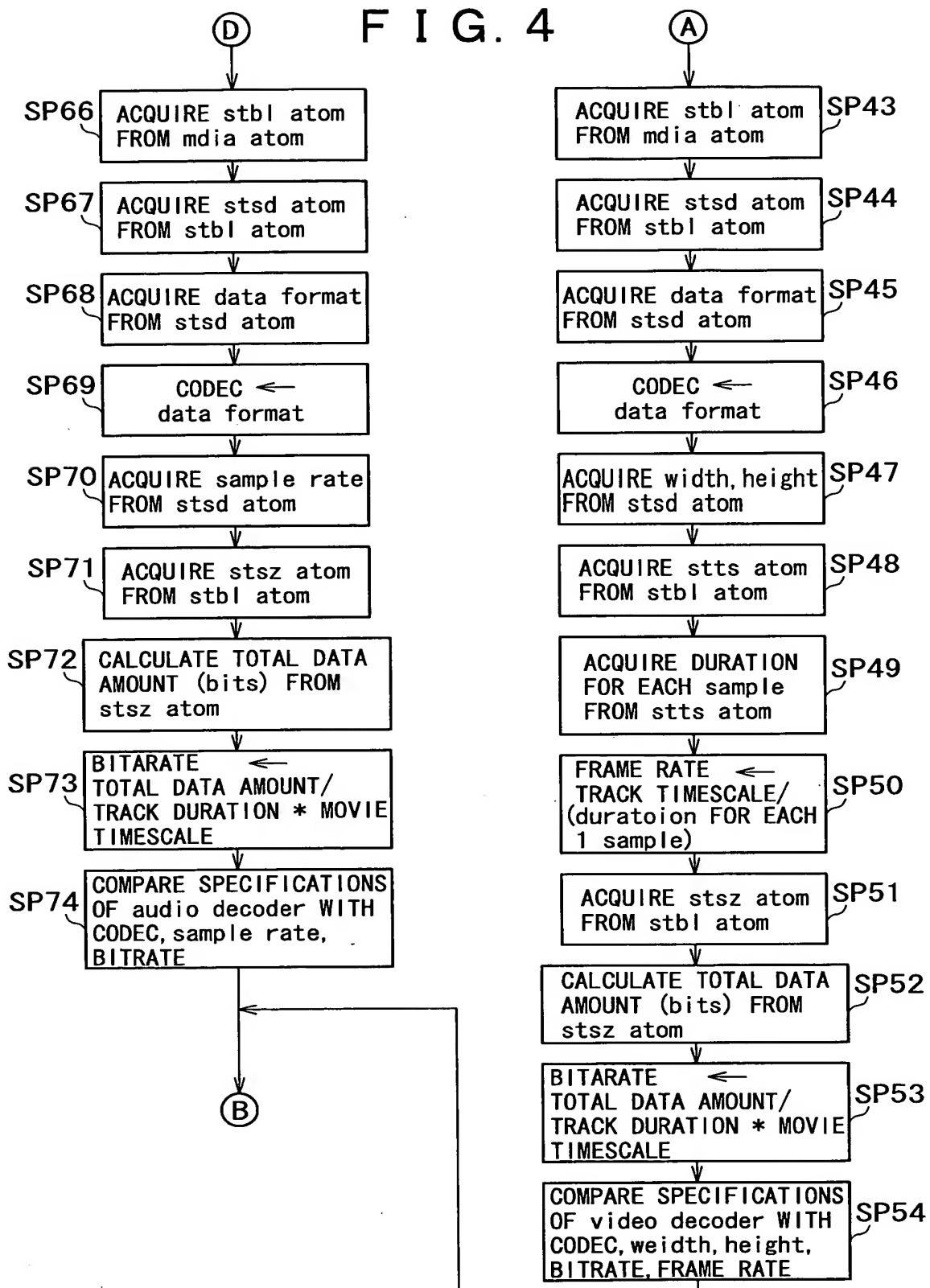


FIG. 5

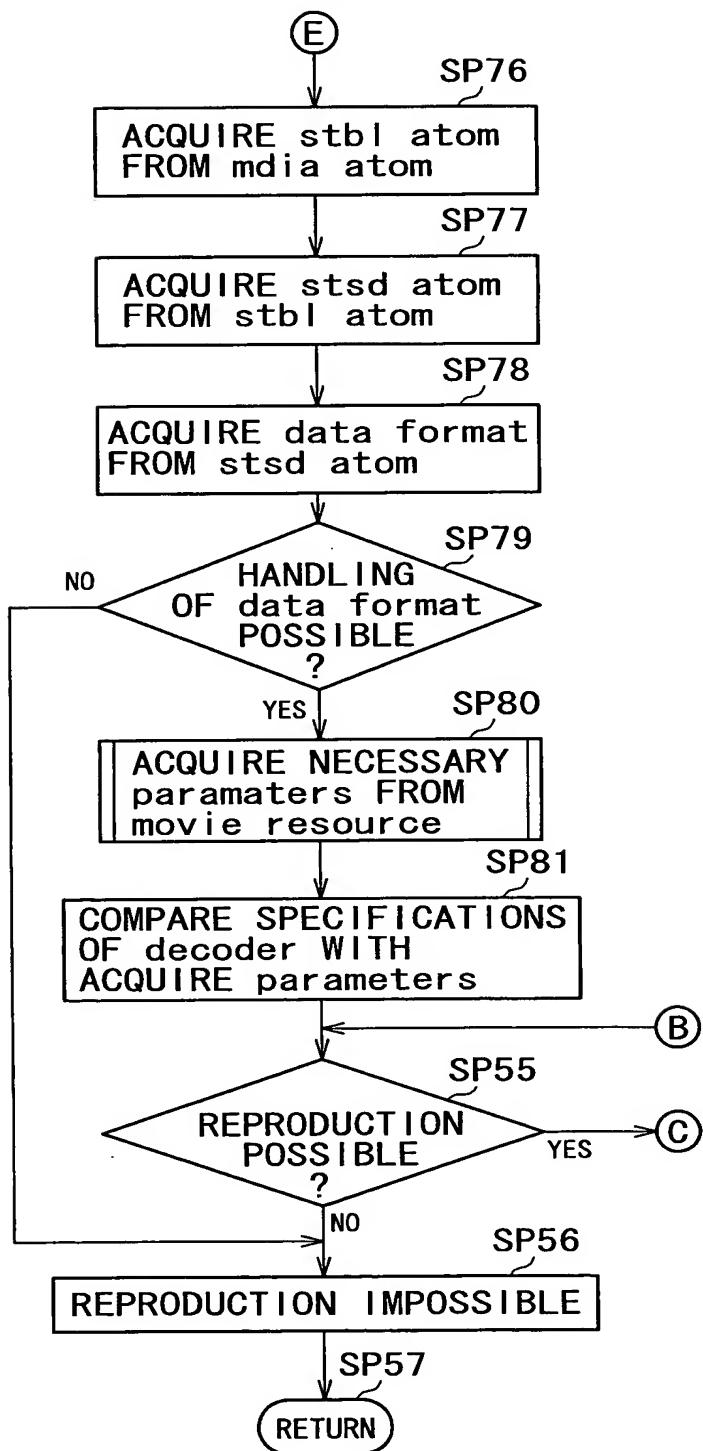


FIG. 6

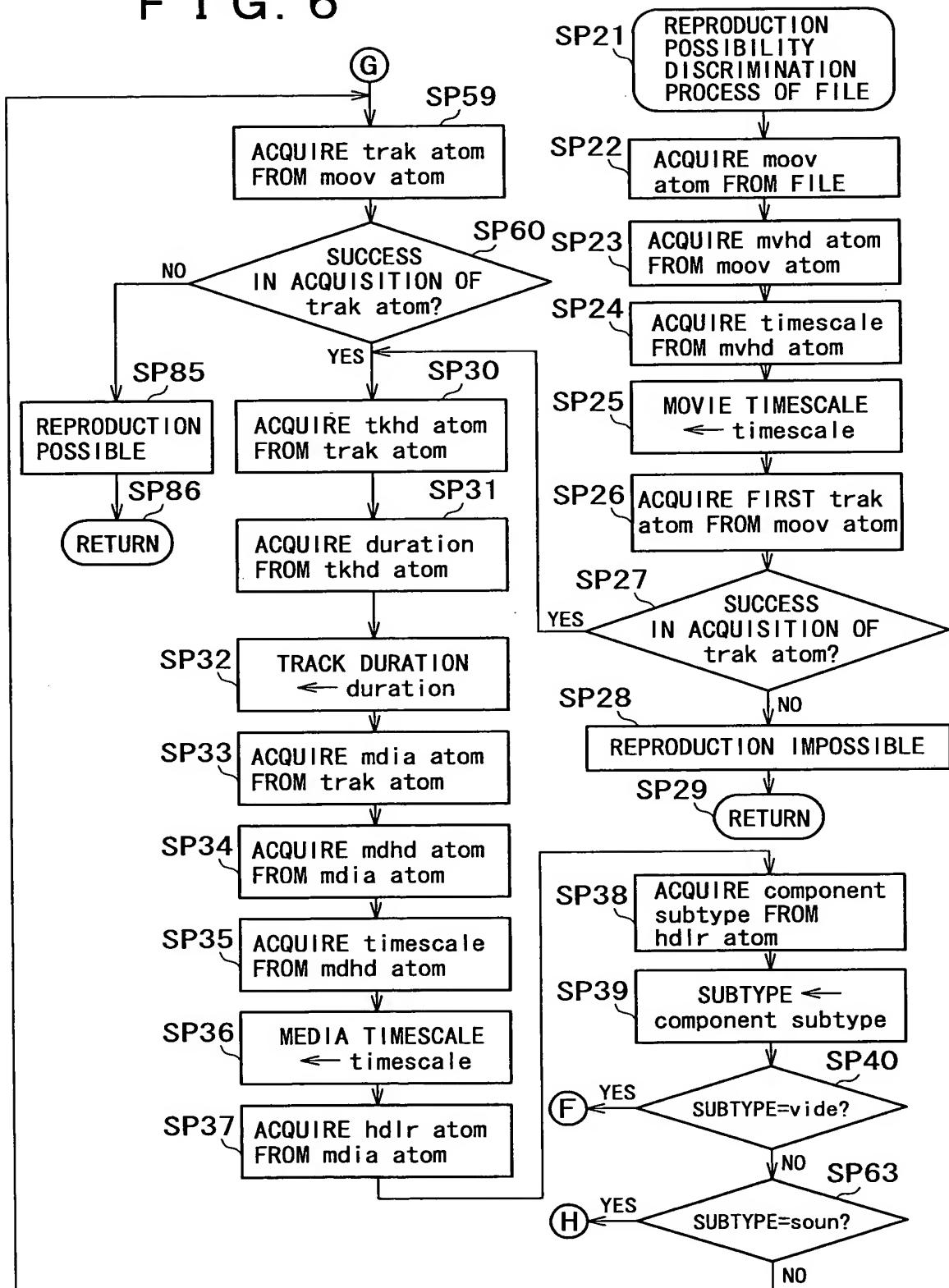


FIG. 7

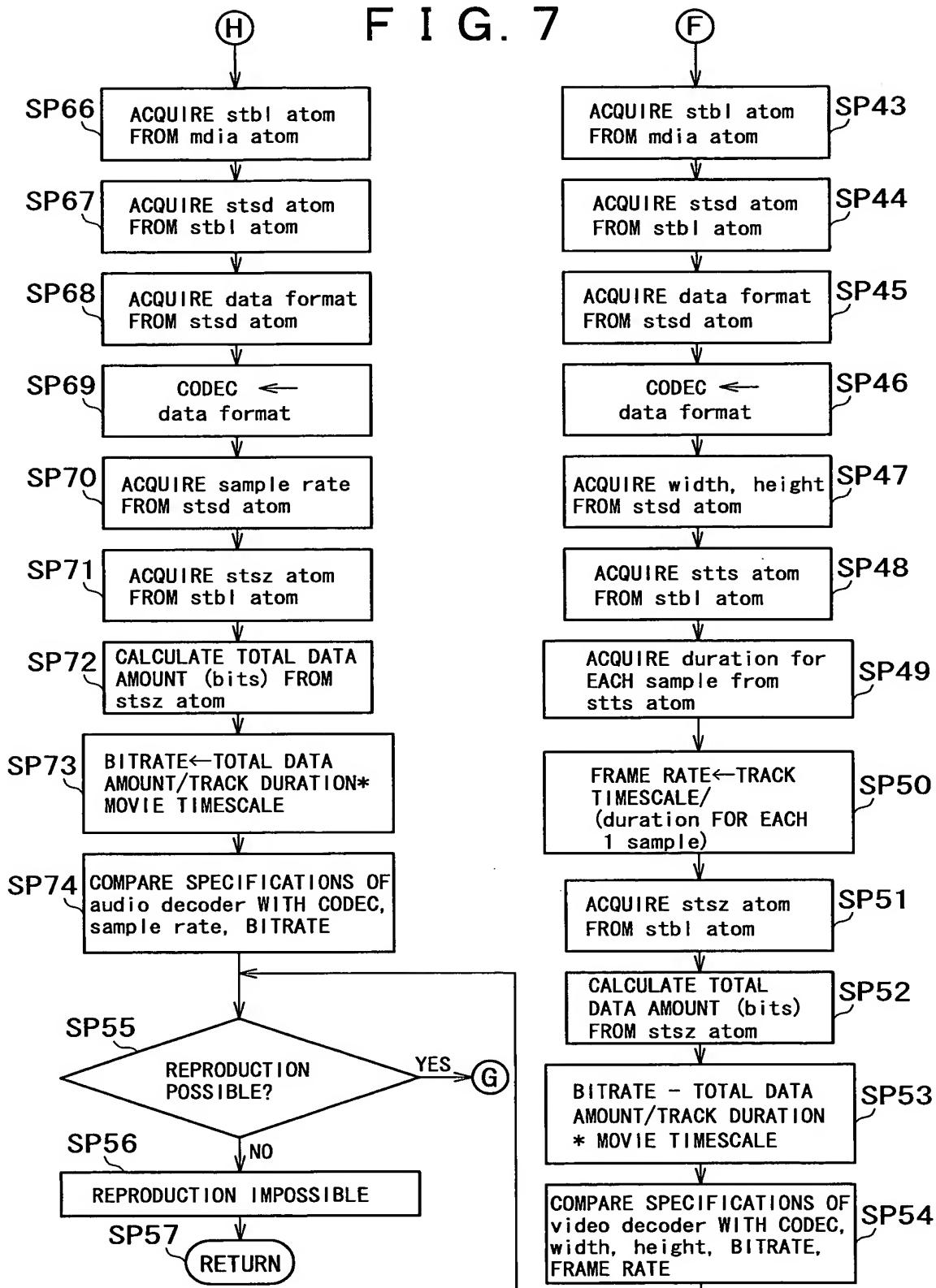


FIG. 8

8 / 31

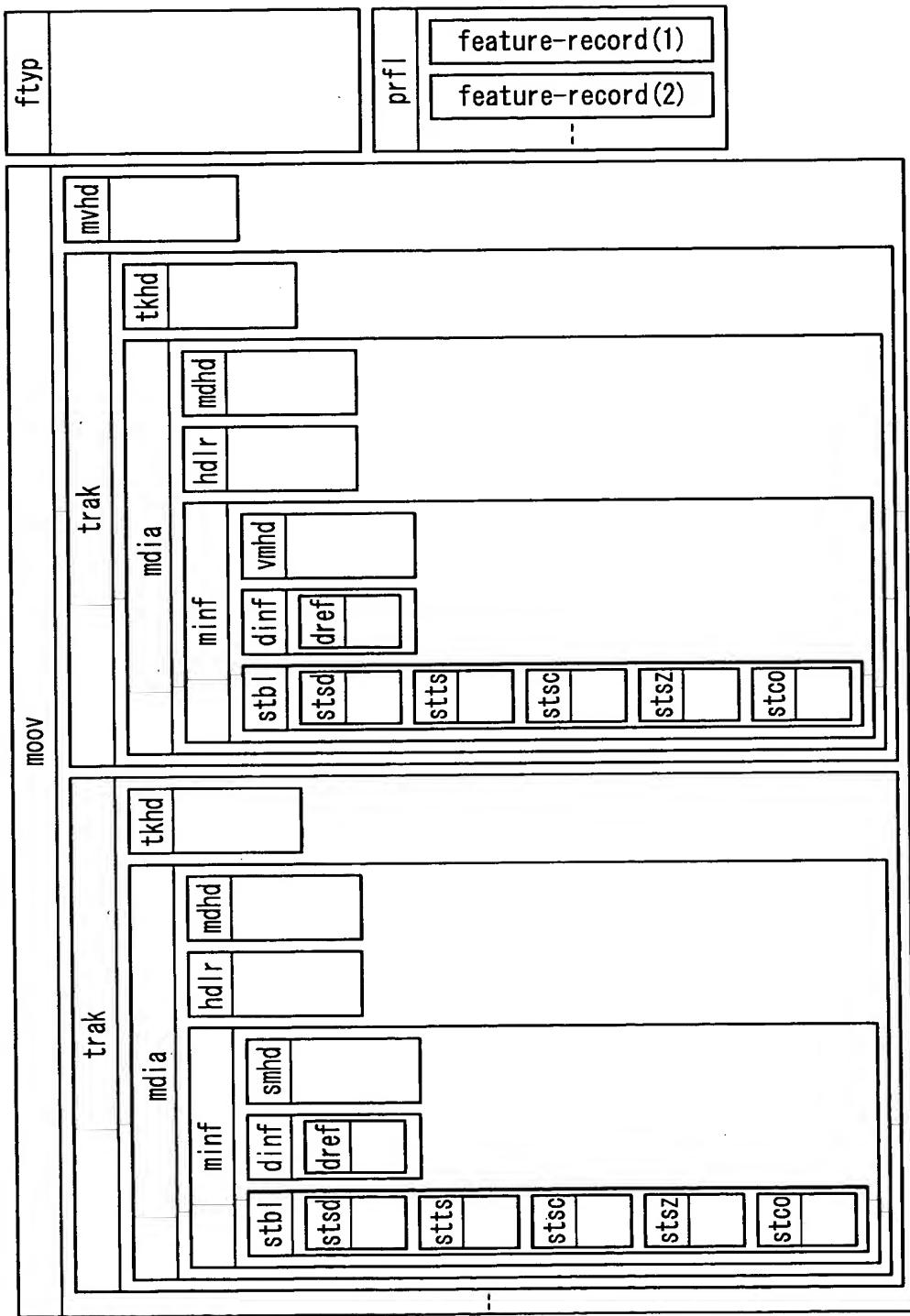


FIG. 9

9 / 31

syntax	Size [bytes]
File Type Compatible Atom {	4
atom size	4
atom type = ftyp	4
Major Brand	4
Minor Version	4
/* Compatible Brand */	4
for (i = 0; i < N; i++) {	4
Brand	4
}	4

## FIG. 10

10 / 31

syntax	Size [bytes]
Profile Atom {	4
atom size	4
atom type = prfl	1
Version	3
flags	4
feature-record-count	4
/* feature-record-list */	4
for (i = 0; i < feature-record-count; i++) {	4
track-ID	4
sub-part-ID	4
feature	4
value	4
}	4

# F I G. 1 1

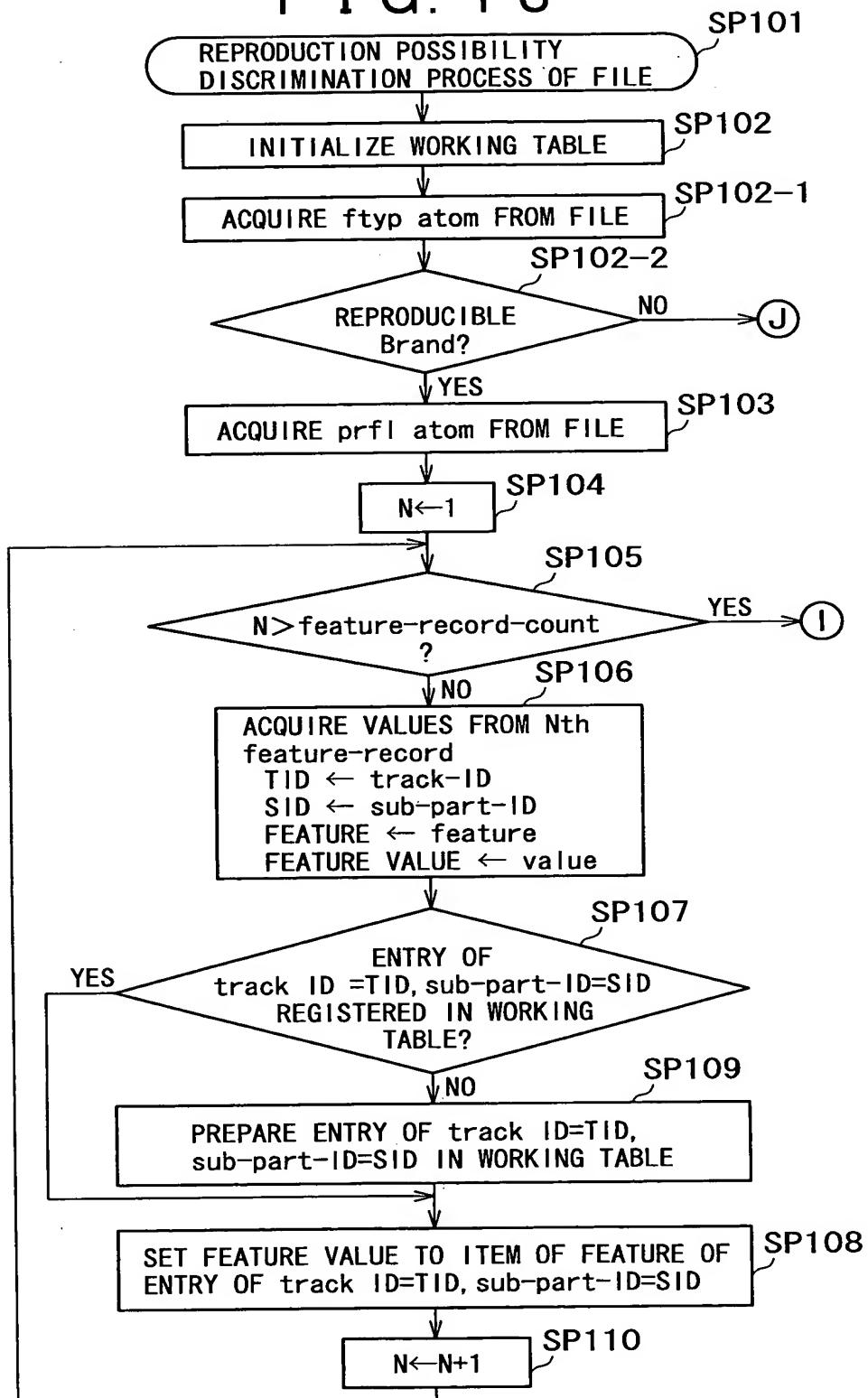
11 / 31

feature	MEANING	value (EXAMPLE)
cqty	TYPE OF CODEC	mp4v (MPEG4 video), mp4a (MPEG4 audio)
brat	BIT RATE OF DATA	64000, 96000, 128000, 192000, 384000 [bps]
frat	VIDEO FRAME RATE	10, 15, 24, 30 [fps]
srat	AUDIO SAMPLING FREQUENCY	24000, 48000 [Hz]
wdth	VIDEO PICTURE SIZE (HORIZONTAL)	176, 352, 704, 720
height	VIDEO PICTURE SIZE (VERTICAL)	120, 144, 240, 288, 480, 576
frty	FIXED FRAME OR VARIABLE FRAME	cfr (FIXED frame rate), vfr (VARIABLE frame rate)
brty	FIXED BIT RATE OR VARIABLE BIT RATE	cbr (FIXED bit rate), vbr (VARIABLE bit rate)

## FIG. 12

feature-record-list			
track-ID	sub-part-ID	feature	value
1	1	cdty	mp4v
2	1	cdty	mp4a
1	1	brat	384000
2	1	brat	128000
1	1	frat	15
1	1	wdth	352
1	1	height	288
2	1	srat	48000
1	1	frty	cfr
2	1	brty	cbr

FIG. 13



# FIG. 14

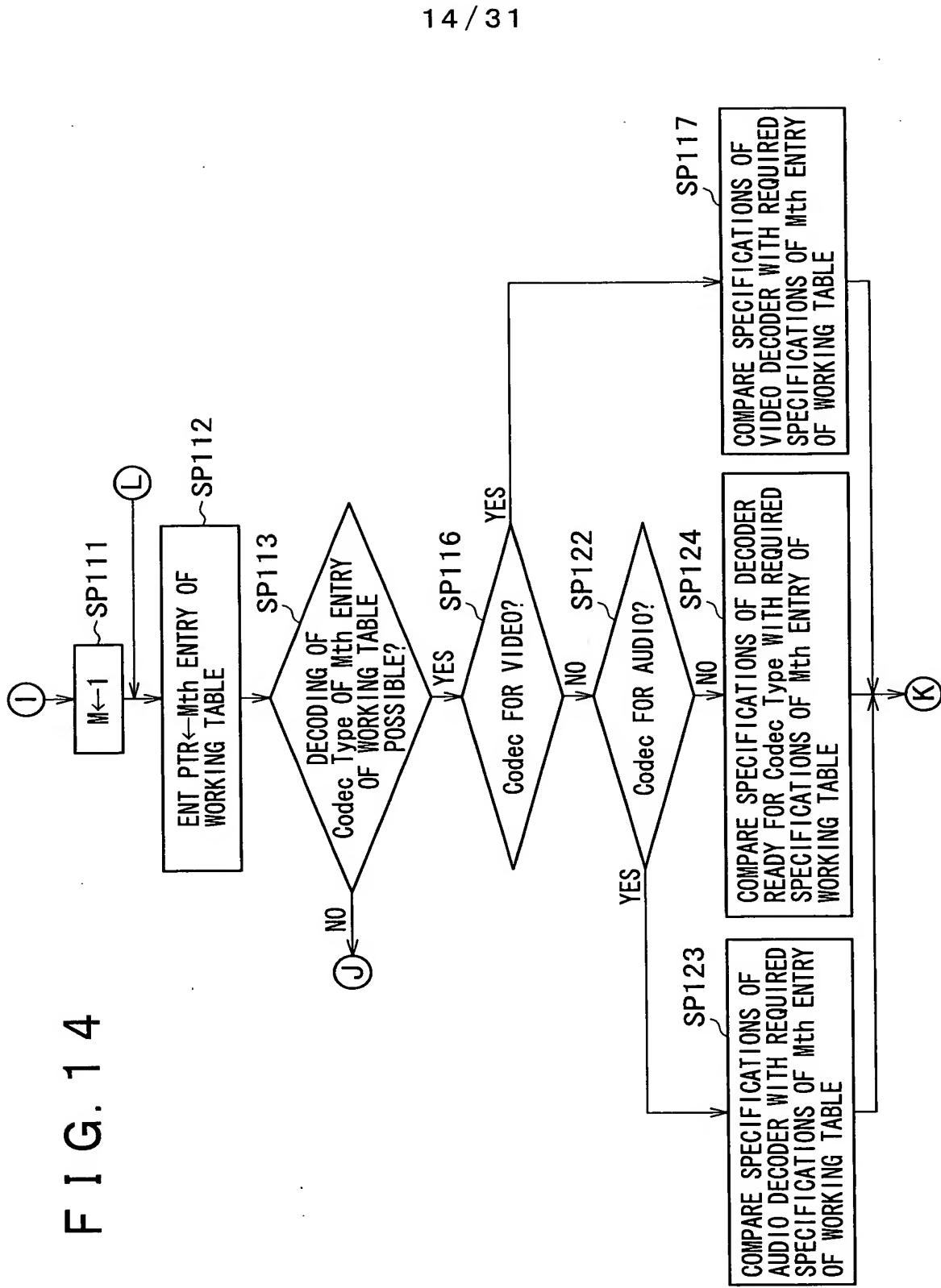


FIG. 15

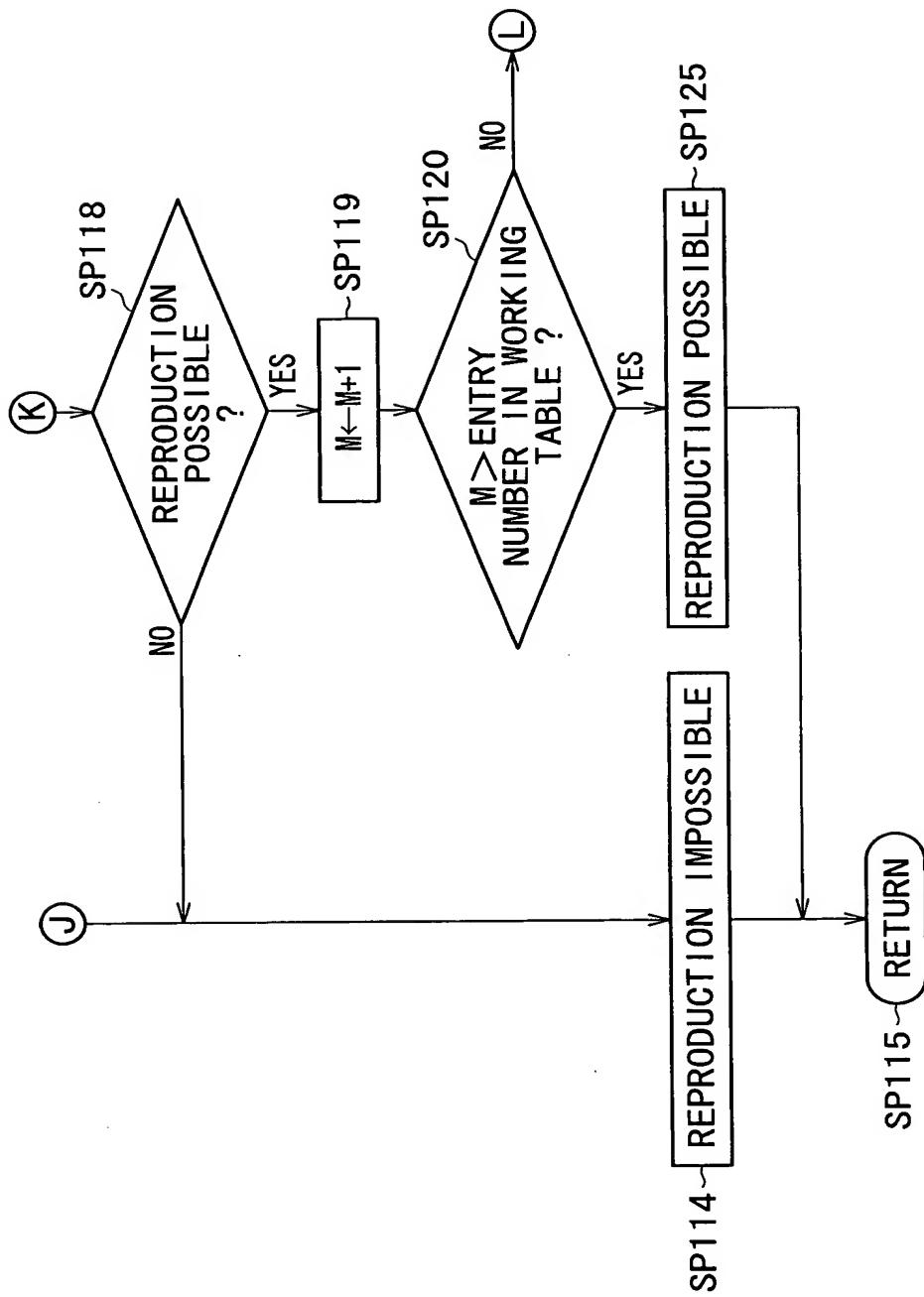


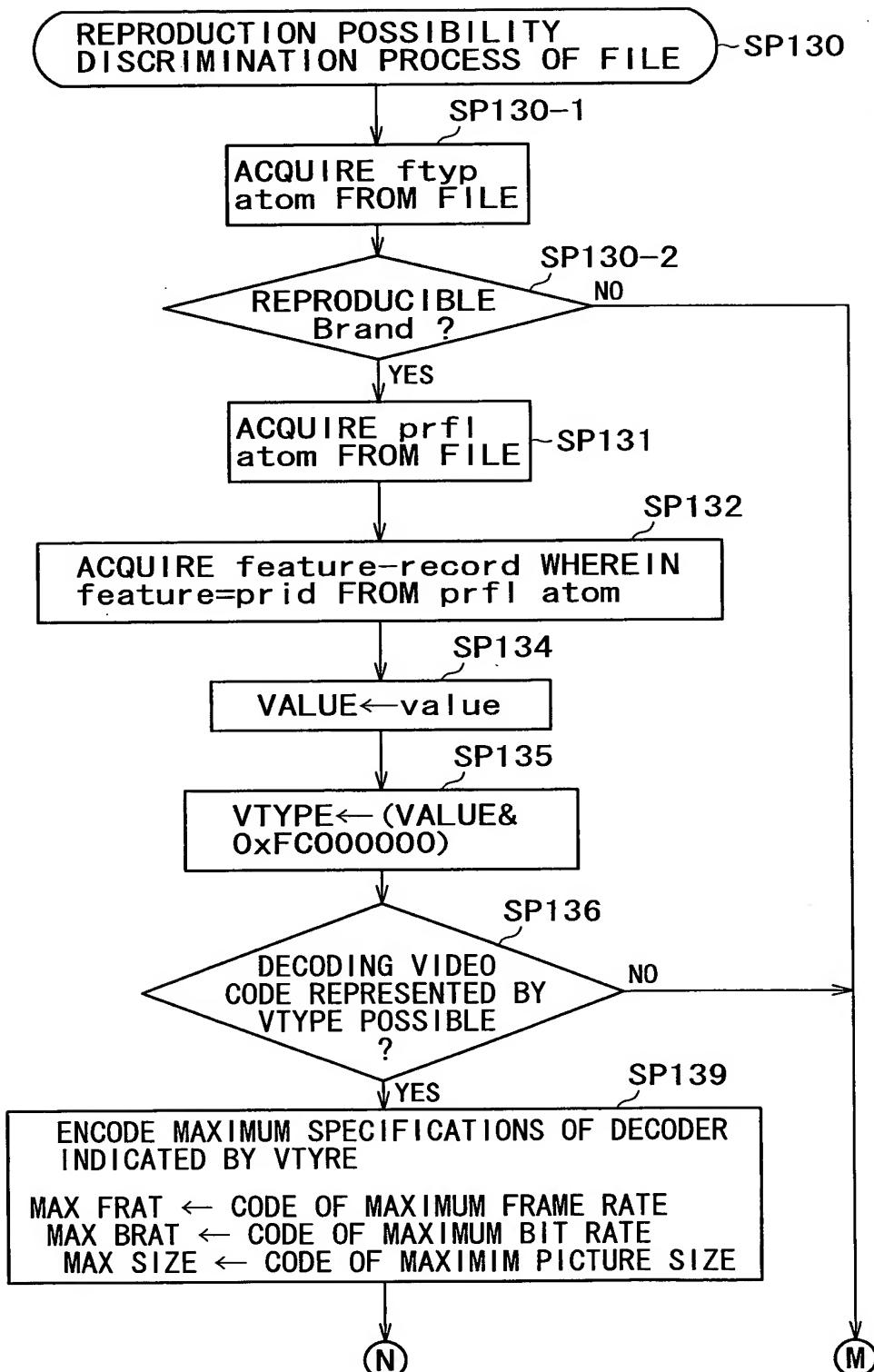
FIG. 16

REQUIRED SPECIFICATIONS						
Entry No.	track ID	sub-part ID	Codec Type	bit rate	frame rate	PICTURE SIZE (HORIZONTAL) (VERTICAL)
1	1	1	mp4v	384000	15	352
2	2	1	mp4a	128000	—	—
...	...	...	...	...	...	...

# FIG. 17

Bit	SIGNIFICANCE OF bit field	VALUE (EXAMPLE) (BINARY NUMBER)	SIGNIFICANCE OF VALUE (EXAMPLE)
31:26	TYPE OF Video Codec	001000 OTHERS	MPEG4 Video Simple Profile reserved
25:24	frame rate CODE	01 10 10 OTHERS	10fps 15fps reserved
23	variable frame rate FLAG	0 1	FIXED frame rate VARIABLE frame rate
22:20	bit rate CODE	010 100 110 OTHERS	96kbps 192kbps 384kbps reserved
19:16	CODE OF PICTURE SIZE	0111 1011 OTHERS	176 x 44 352 x 288 reserved
15:10	TYPE OF Audio Codec	010101 OTHERS	MPEG4 Audio AAC-LC reserved
9	reserved	0	
8	variable bit rate FLAG	0 1	FIXED bit rate VARIABLE bit rate
7:4	bit rate CODE	0111 1001 OTHERS	64kbps 128kbps reserved
3	reserved	0	
2:0	sampling rate CODE	010 101 OTHERS	24kHz 48kHz reserved

FIG. 18



F I G. 1 9

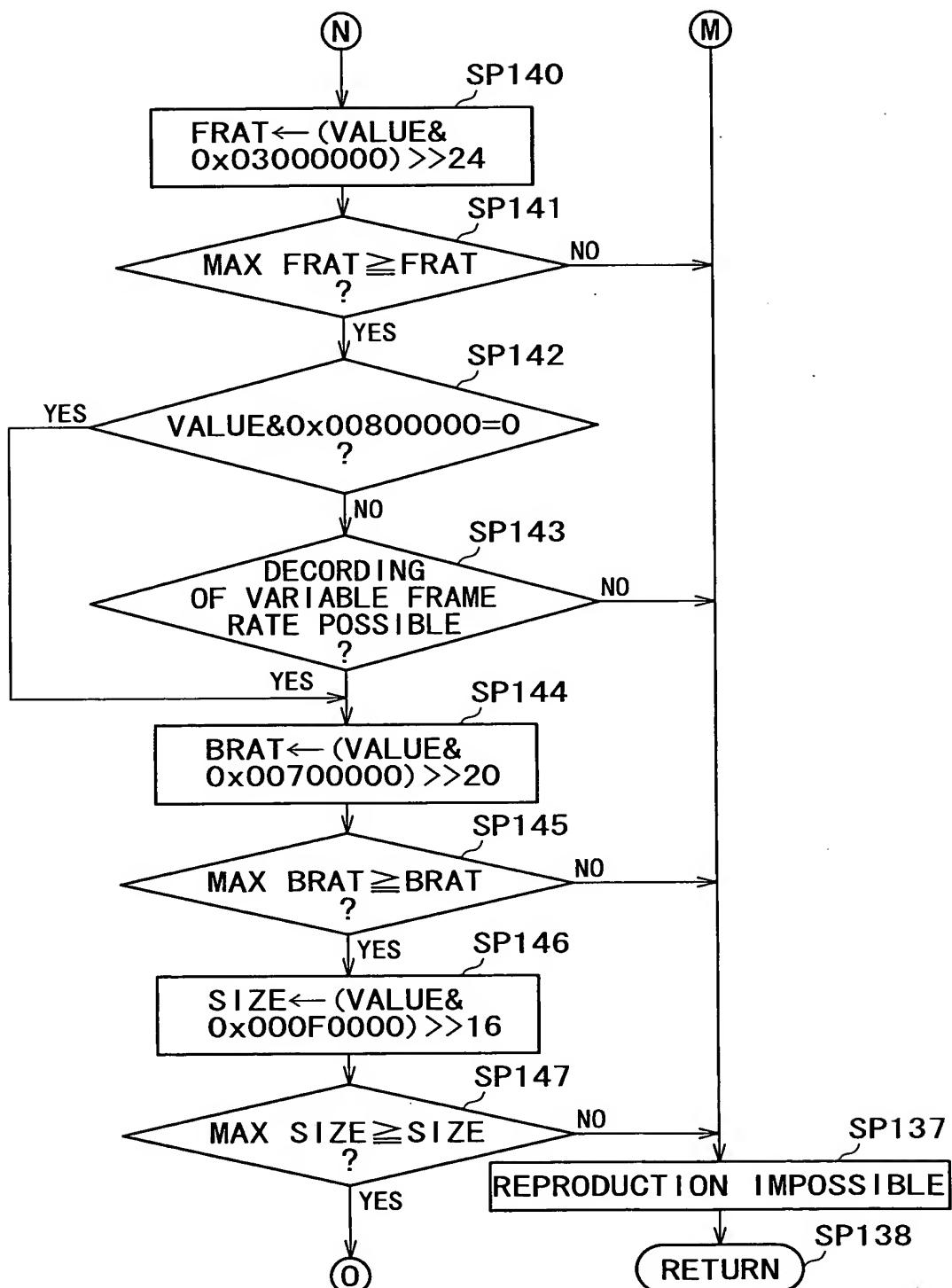
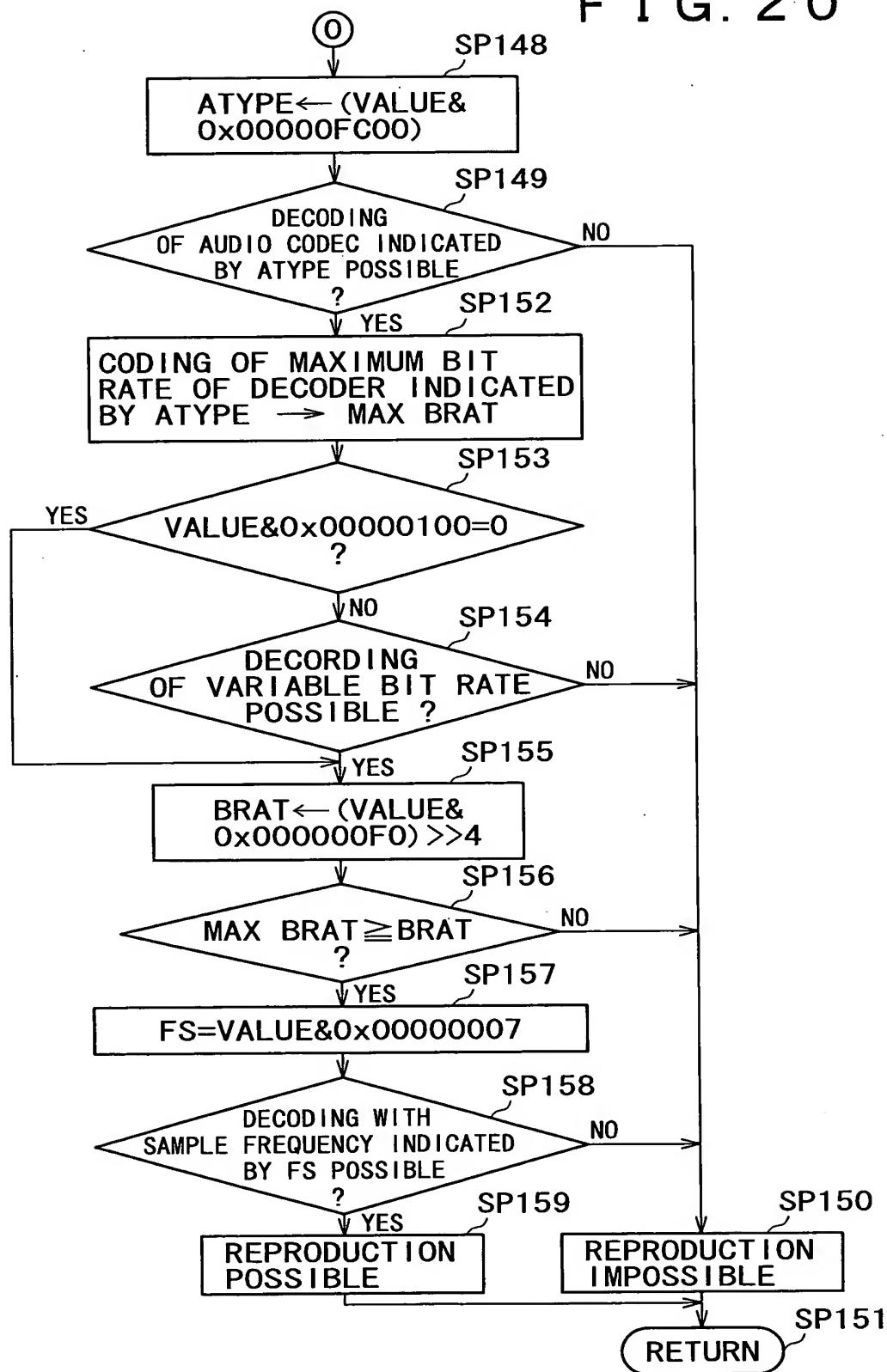
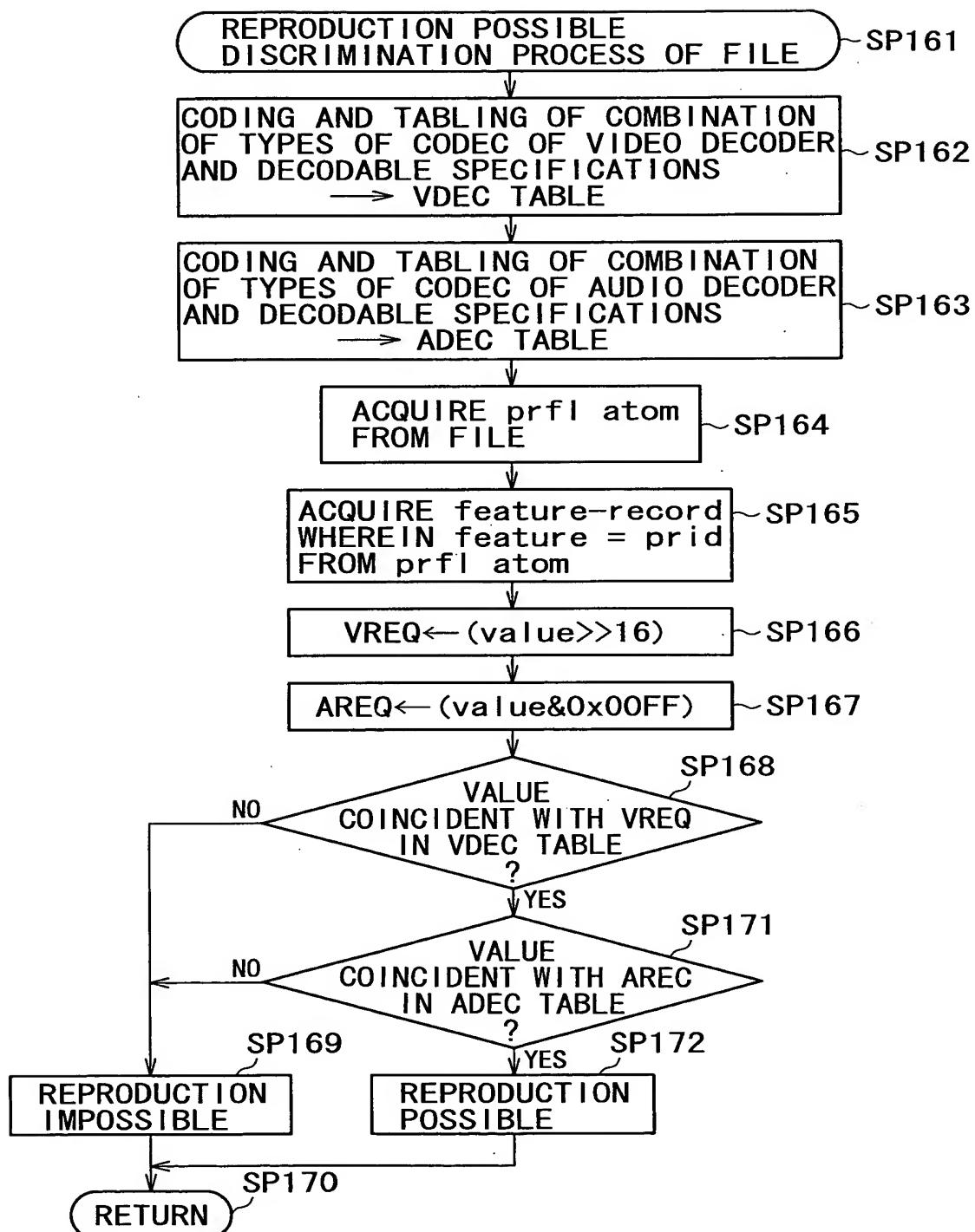


FIG. 20



F I G. 2 1



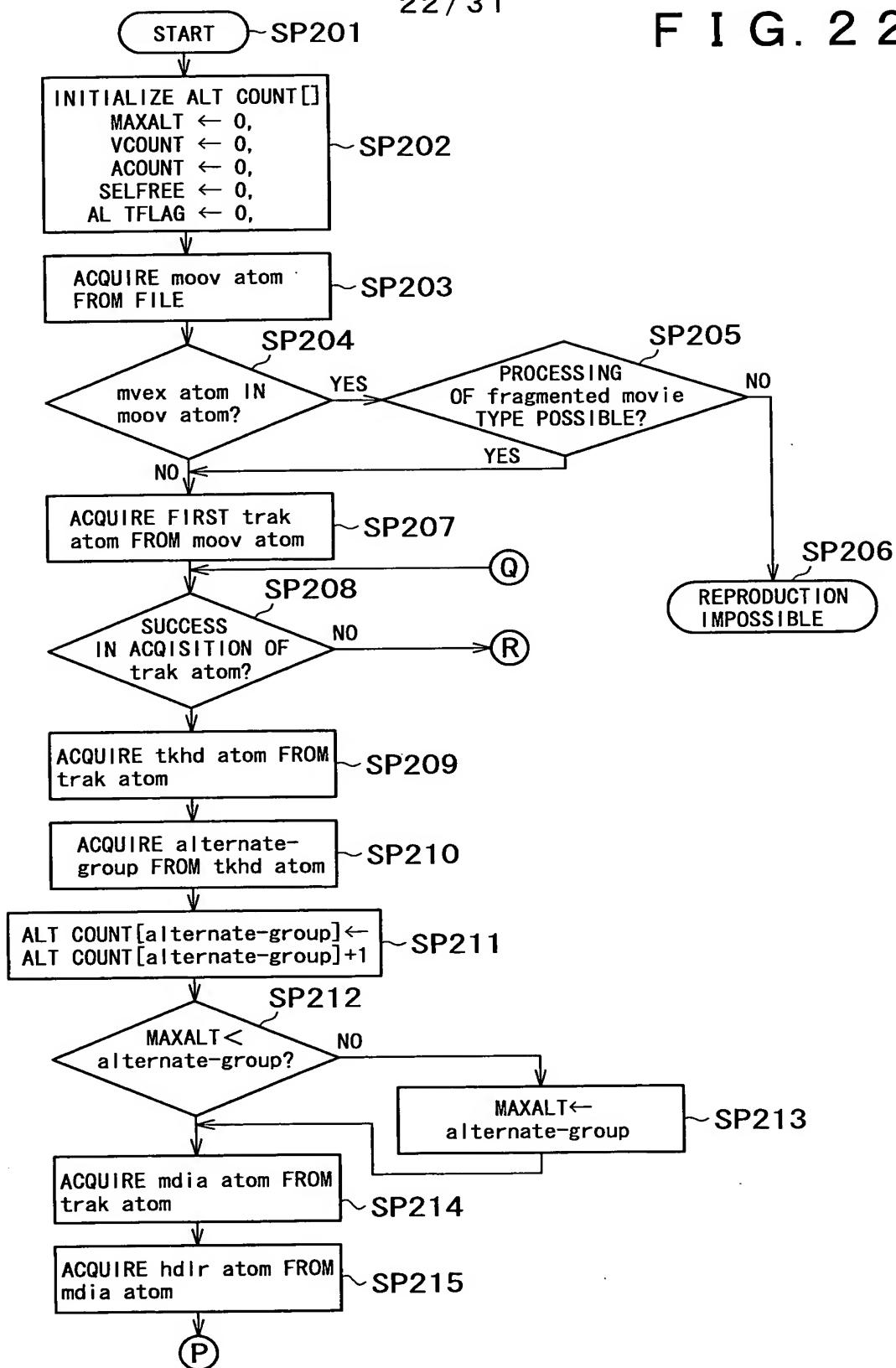


FIG. 23

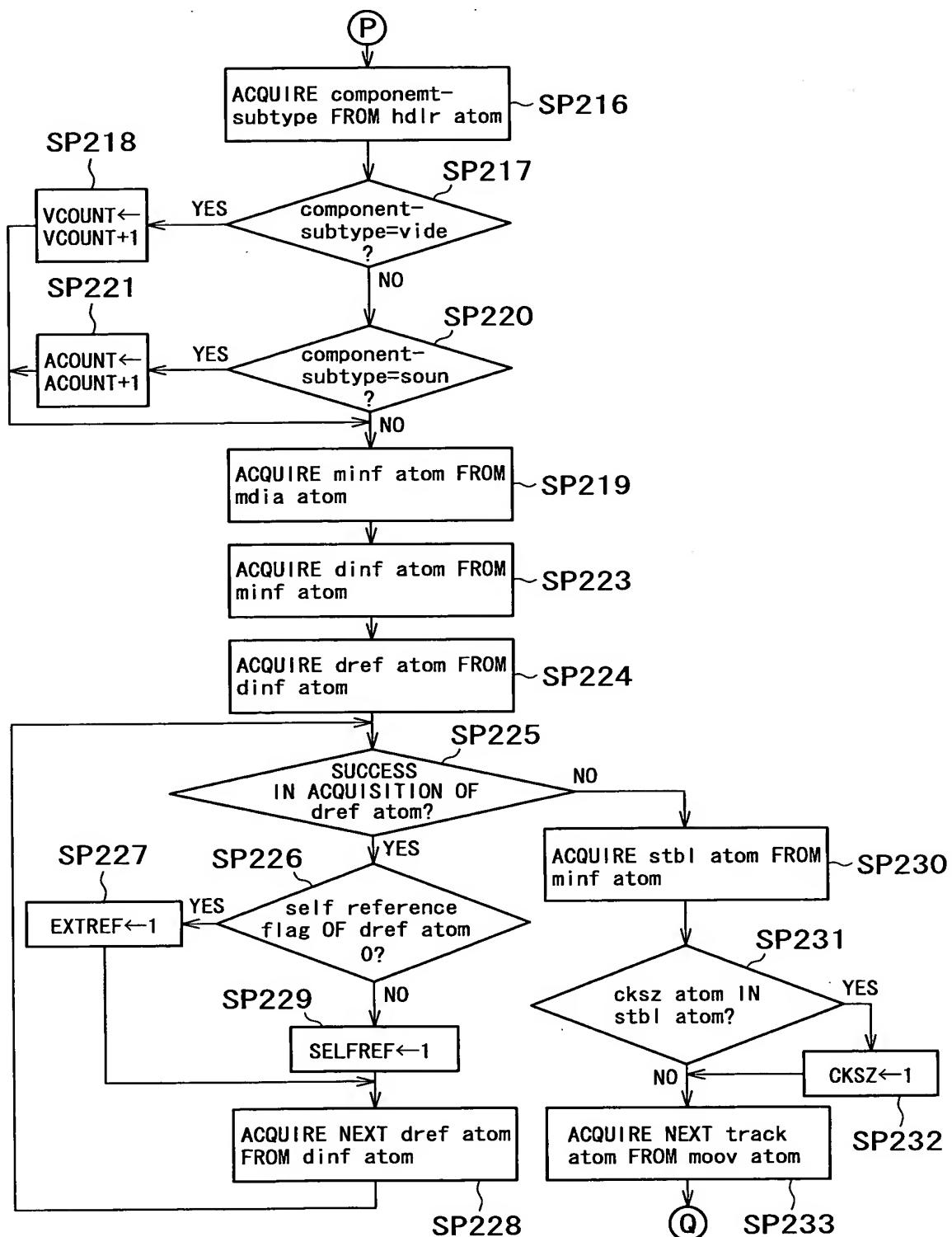
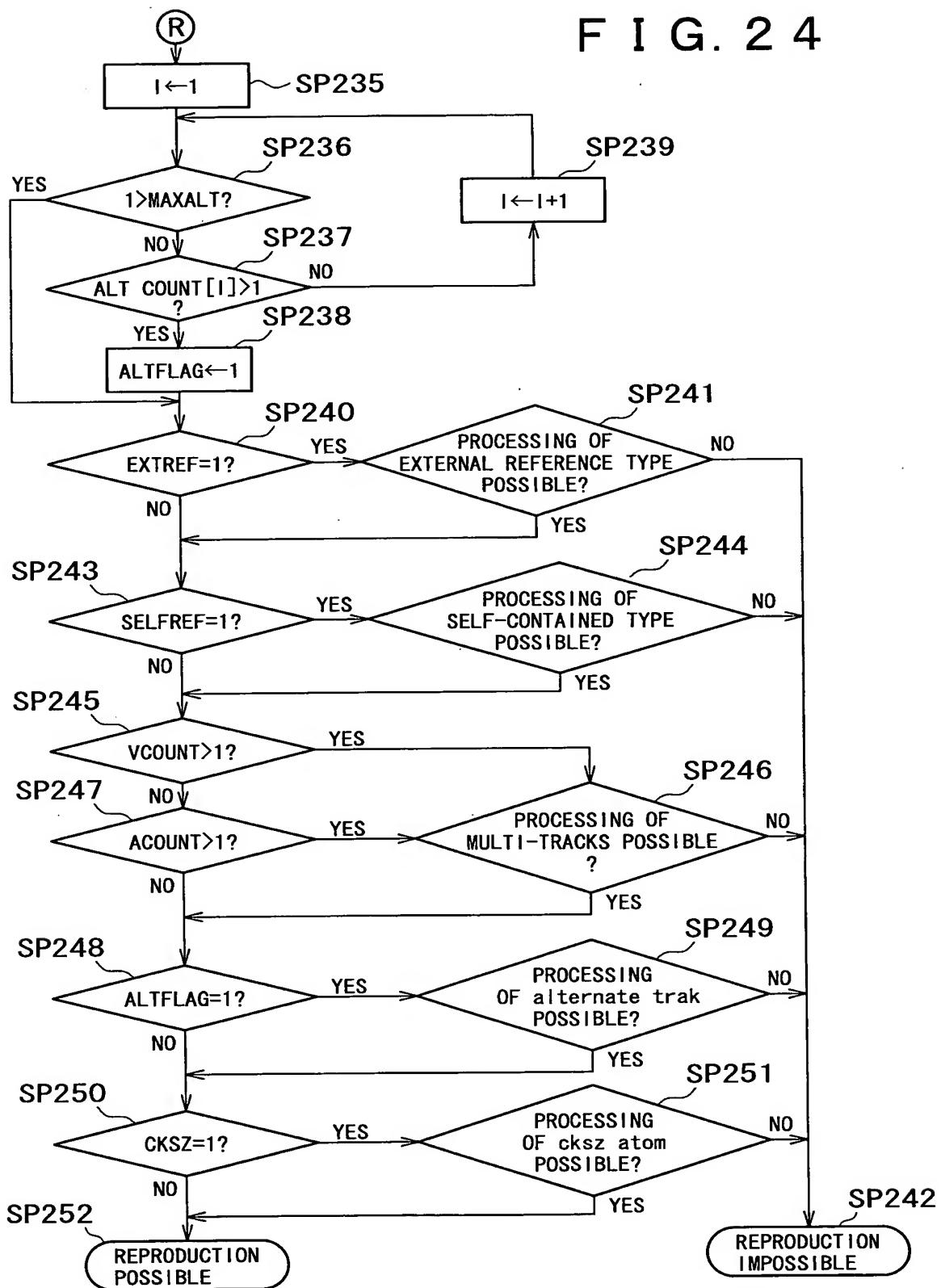


FIG. 24



## FIG. 25

value	SIGNIFICANCE
frmv	Fragmented Movie Atoms PRESENT
mdtk	TRACK FOR MODIFICATION
altk	TRACK FOR ALTERNATIVE
exrf	EXTERNAL REFERENCE PRESENT
srlf	SELF-CONTAINMENT PRESENT
cksz	chunk size atom PRESENT

FIG. 26

feature-record-list			
track-ID	sub-part-ID	feature	value
1	1	tkst	s\rf
2	1	tkst	exrf
3	1	tkst	mdtk
4	1	tkst	altk
3	1	tkst	exrf
4	1	tkst	exrf
4	1	tkst	s\rf

F I G. 2 7

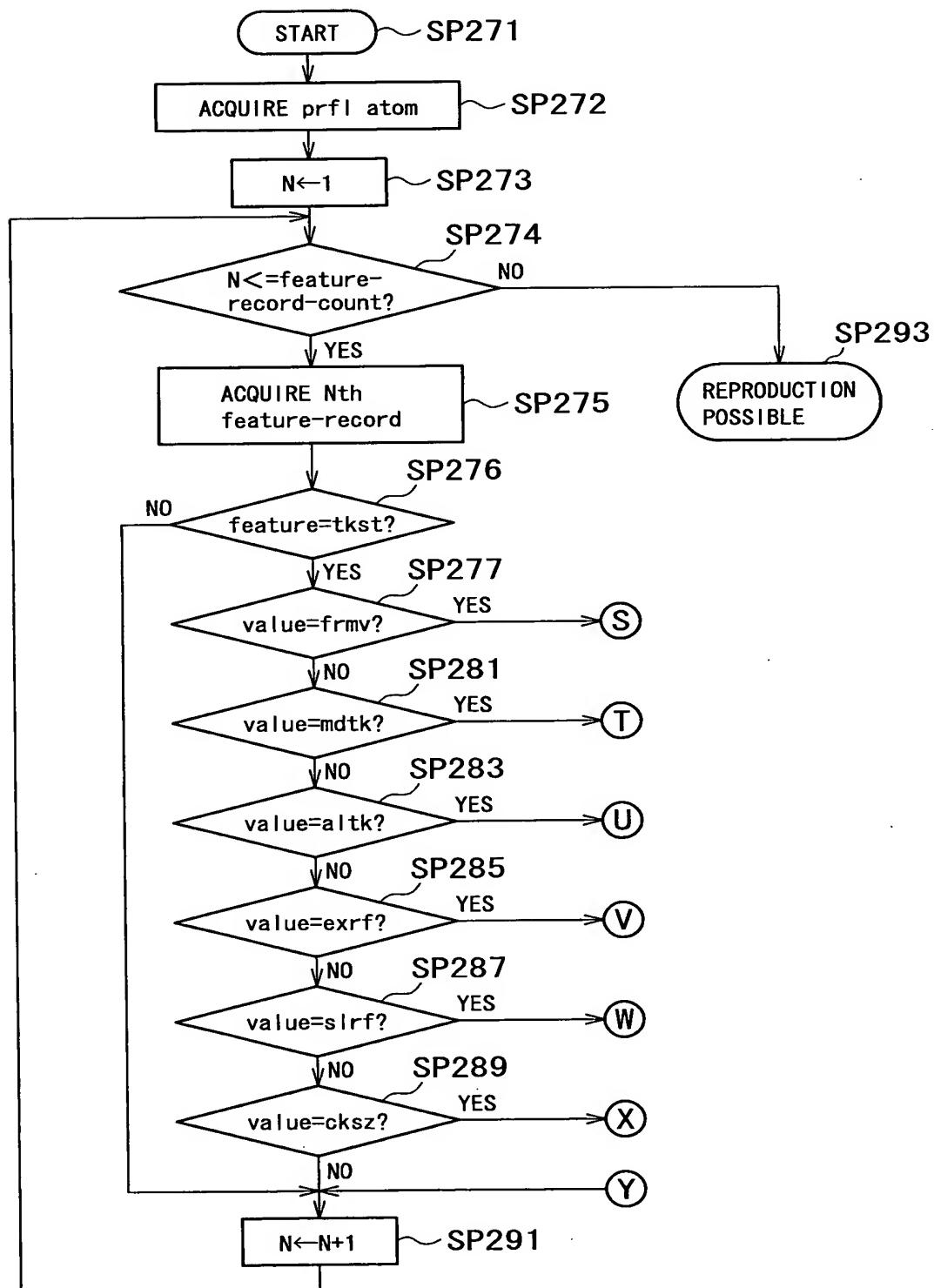
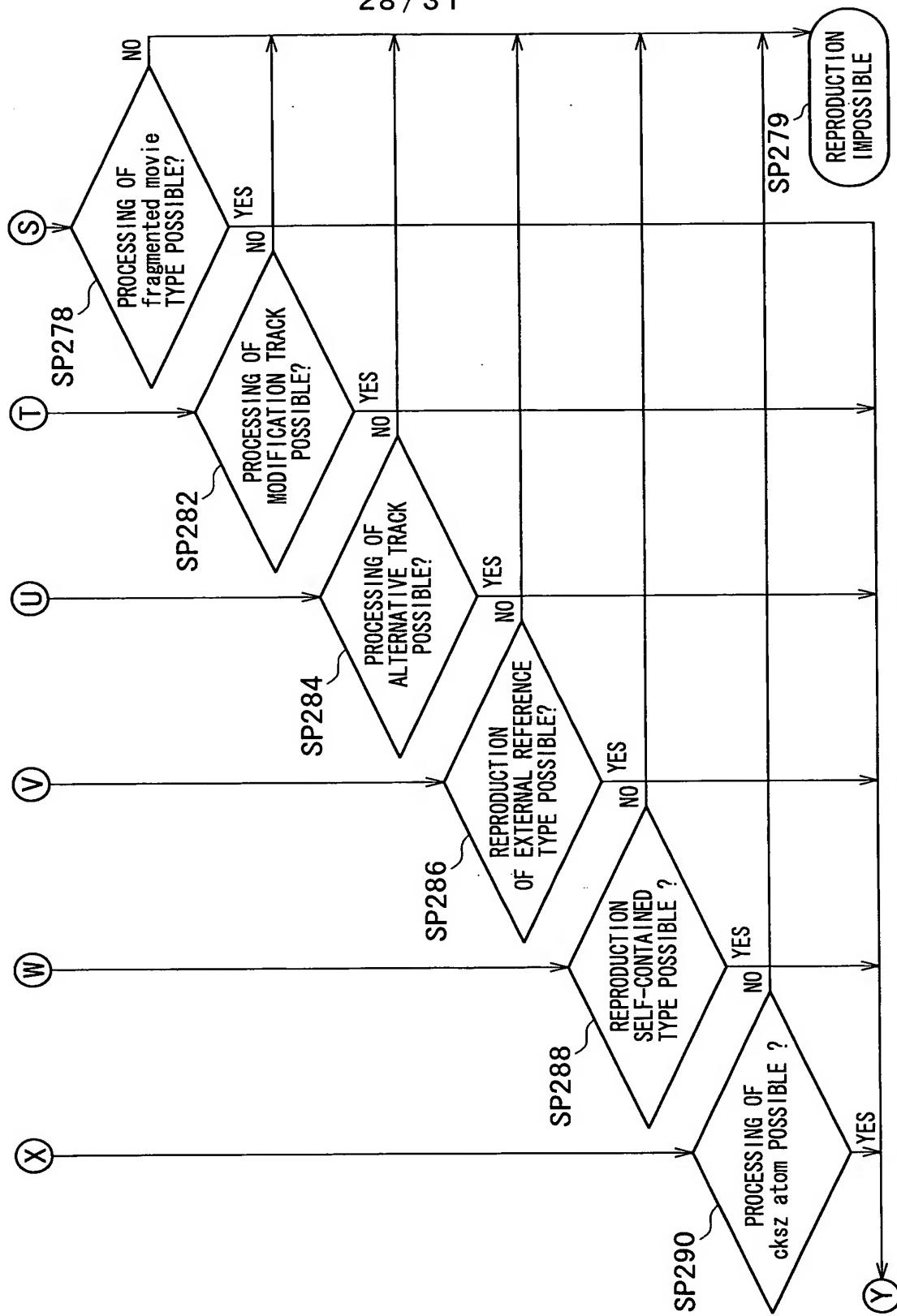


FIG. 28

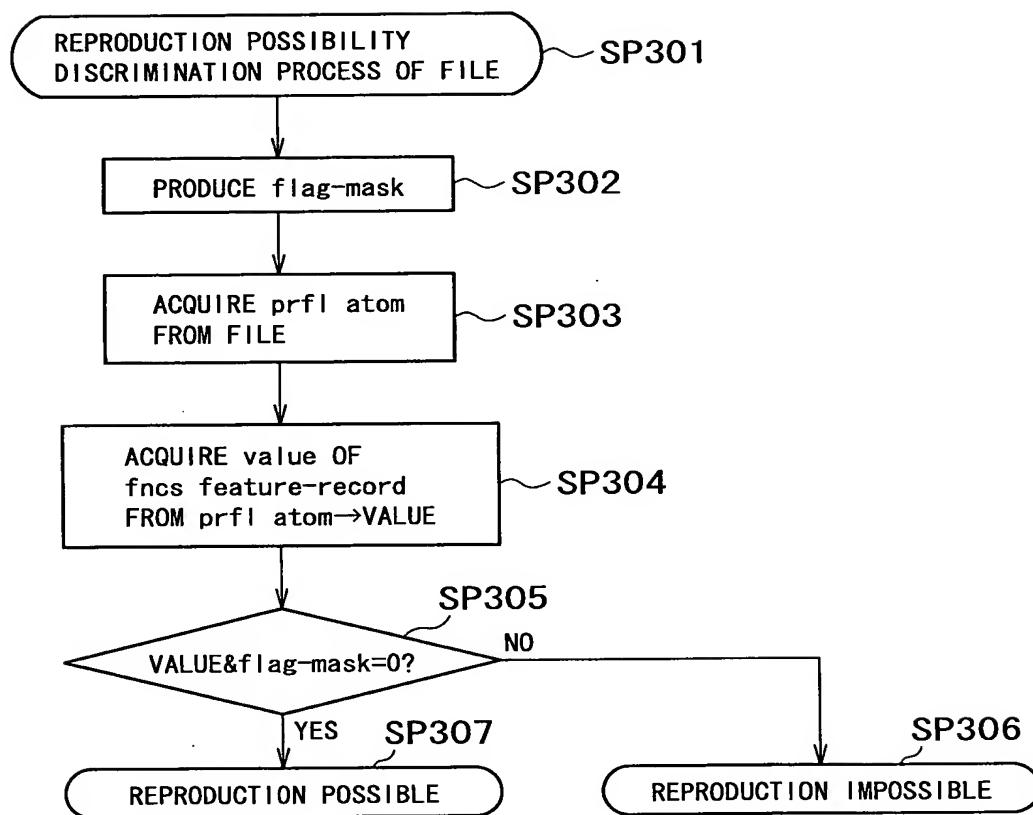


# F I G. 2 9

29 / 31

feature=fnsc	
Bit	SIGNIFICANCE OF EACH Bit (FLAG)
31	Fragmented Movie TYPE INCLUDED
30:24	reserved
23	TRACK WHICH MODIFIES MAIN VIDEO TRACK
22	TRACK WHICH MODIFIES MAIN AUDIO TRACK
21	ALTERNATIVE TRACK FOR MAIN VIDEO TRACK
20	ALTERNATIVE TRACK FOR MAIN AUDIO TRACK
19	MAIN VIDEO TRACK IN EXTERNAL REFERENCE TYPE
18	MAIN AUDIO TRACK IN EXTERNAL REFERENCE TYPE
17	Chunk Size Atom USED
16:0	reserved

F I G. 3 0



## FIG. 31

